

**(WO/2002/054435) INNER MAGNETIC SHIELDING MATERIAL AND METHOD FOR PRODUCTION THEREOF**

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Title: INNER MAGNETIC SHIELDING MATERIAL AND METHOD FOR PRODUCTION THEREOF

Abstract: An inner magnetic shielding material, characterized as comprising a cold rolled steel sheet having a surface roughness of 0.2 to 3 $\mu\text{g(m) mRa}$ and, formed at least one surface thereof, an organic resin coating film comprising C and H, or C, H and O, or C, H, O and N and having a thickness of 0.3 to 5 $\mu\text{g(m) m}$; and a method for producing the inner magnetic shielding material which comprises a step of annealing a cold-rolled steel sheet, a step of adjusting a surface roughness of the annealed steel sheet to a value of 0.2 to 3 $\mu\text{g(m) mRa}$, a step of forming an organic resin coating film comprising C and H, or C, H and O, or C, H, O and N and having a thickness of 0.3 to 5 $\mu\text{g(m) m}$ at least one surface of the cold rolled steel sheet. The inner magnetic shielding material has good resistance to rust and good degreasing and cleaning properties, is free from the danger of generating a corrosive gas, and also has good press formability.

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